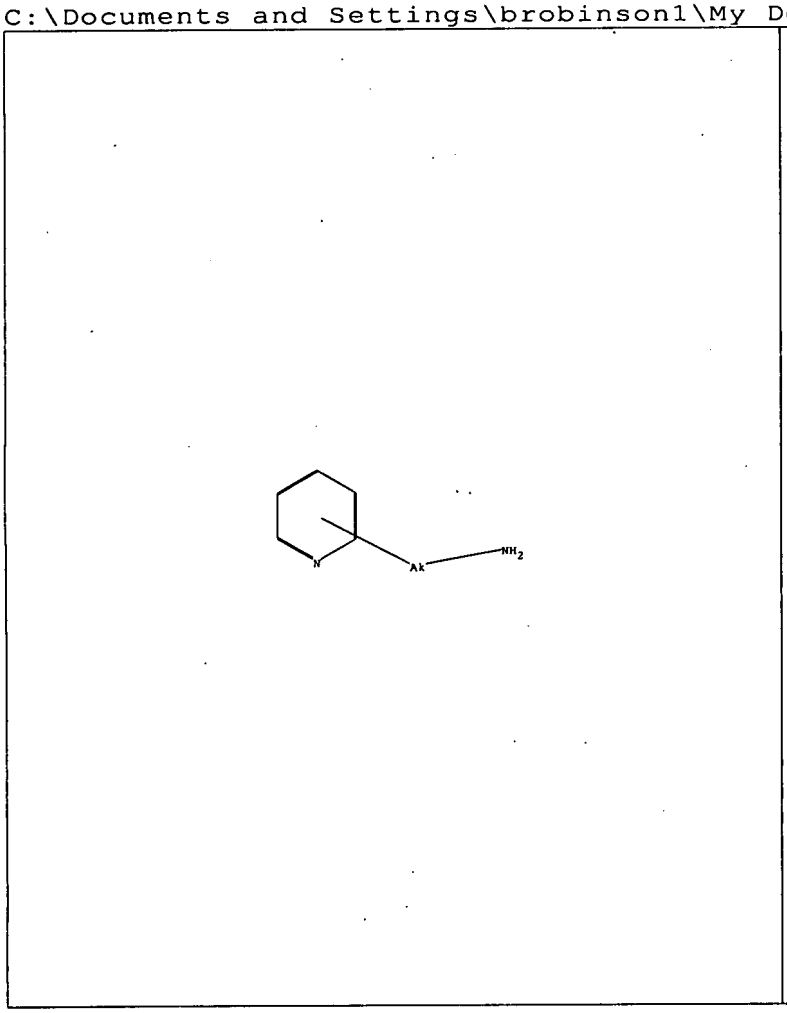
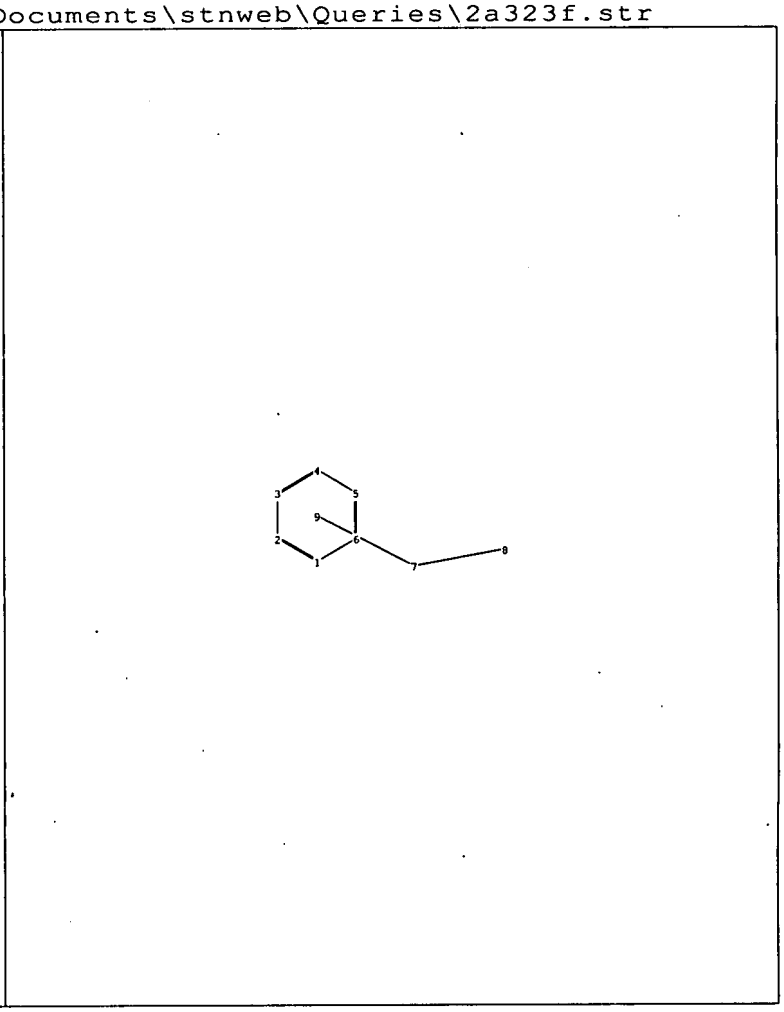
EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1334	((546/290) or (546/334)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/06 10:44
L2	670	1 and amino and methyl and pyridine	US-PGPUB; USPAT	OR	OFF	2007/07/06 11:05
L3	0	("(vangelistiadjmanuel.inv.)").PN.	US-PGPUB	OR	OFF	2007/07/06 11:05

C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\2a323f.str

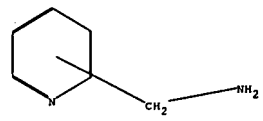


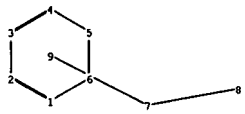


chain nodes :
7 8
ring nodes :
1 2 3 4 5 6
chain bonds :
7-8
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Connectivity :
7:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom

C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\rererh.str

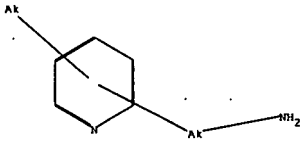


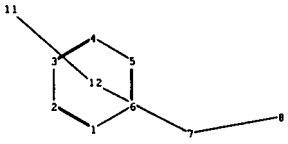


chain nodes :
7 8
ring nodes :
1 2 3 4 5 6
chain bonds :
7-8
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact bonds :
7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom

C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\qwj.str

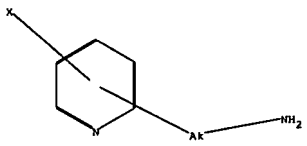


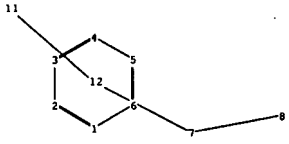


chain nodes :
7 8 11
ring nodes :
1 2 3 4 5 6
chain bonds :
7-8
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Connectivity :
7:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom
11:CLASS 12:Atom

C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\erern.str

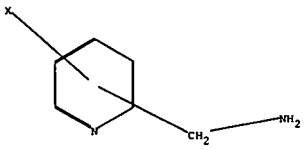


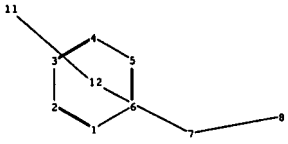


chain nodes :
7 8 11
ring nodes :
1 2 3 4 5 6
chain bonds :
7-8
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Connectivity :
7:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom
11:CLASS 12:Atom

C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\qmh.str

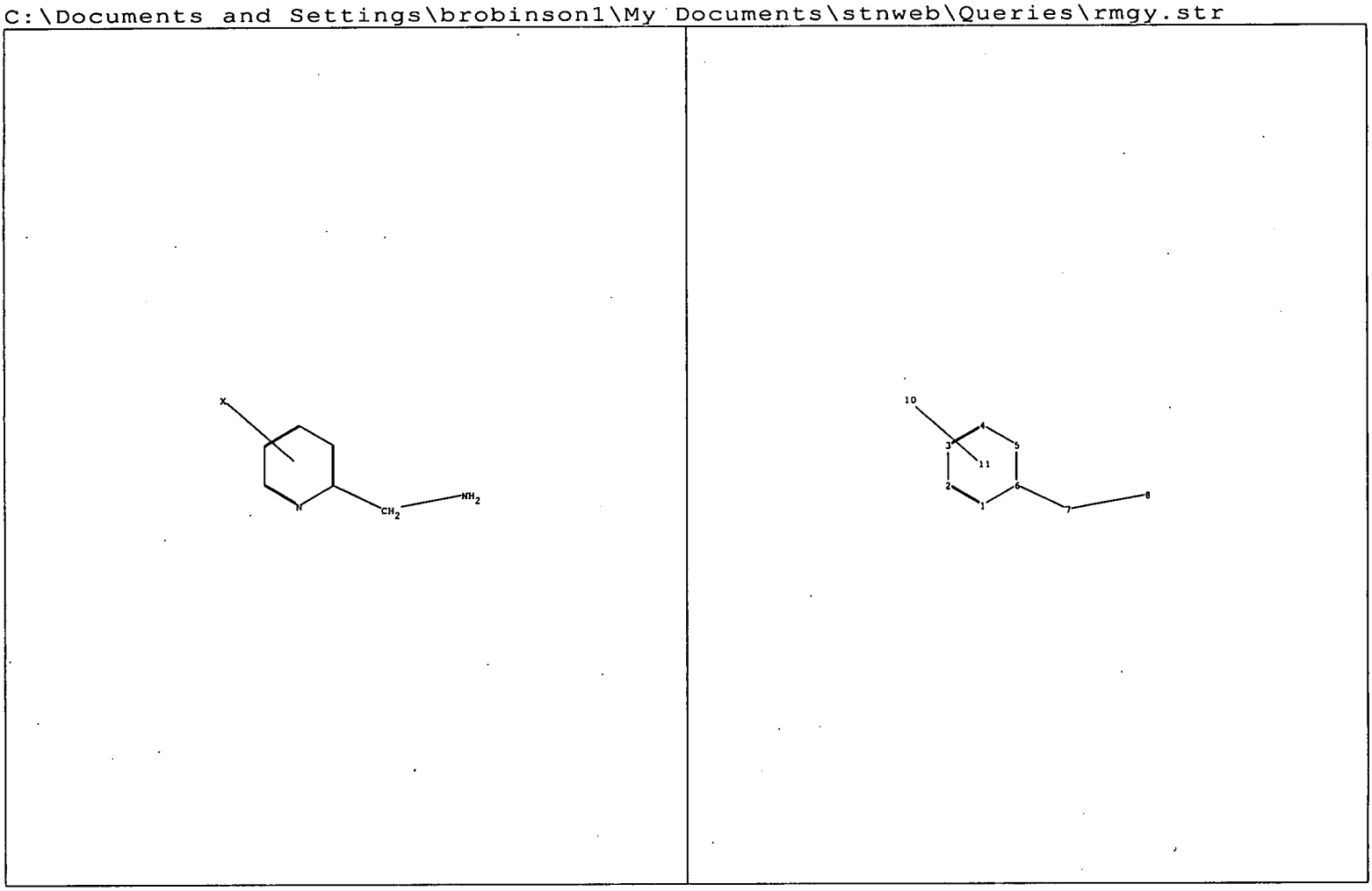




chain nodes :
7 8 11
ring nodes :
1 2 3 4 5 6
chain bonds :
7-8
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact bonds :
7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom
11:CLASS 12:Atom

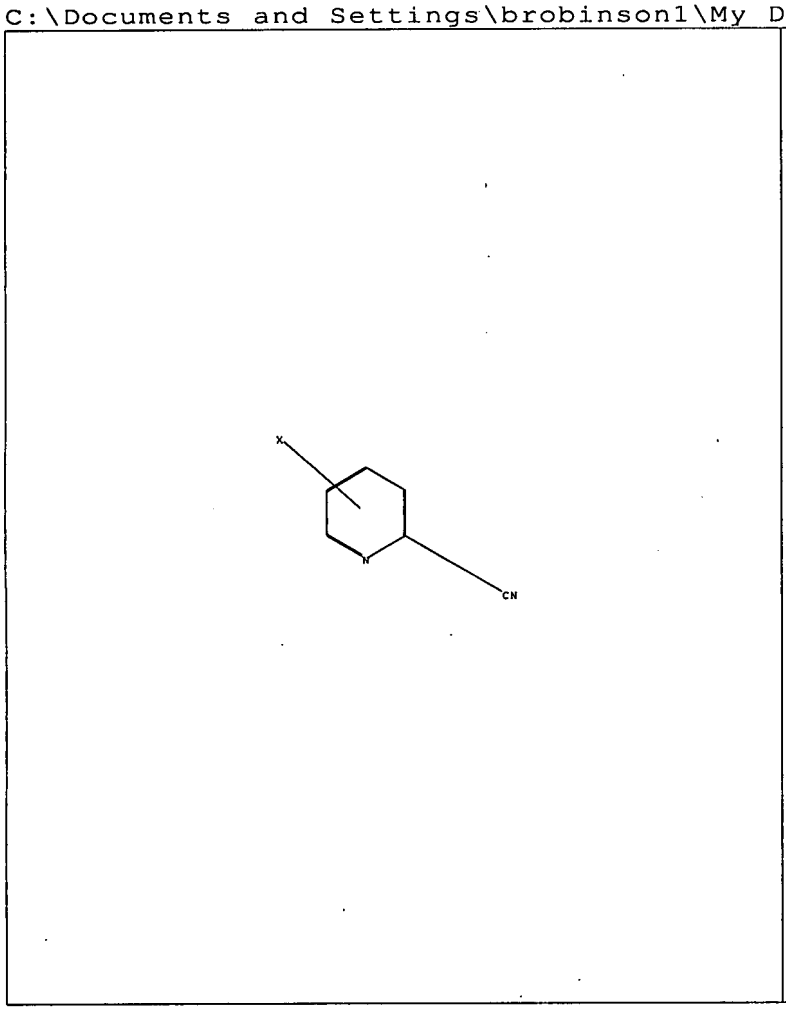
C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\rmgy.str

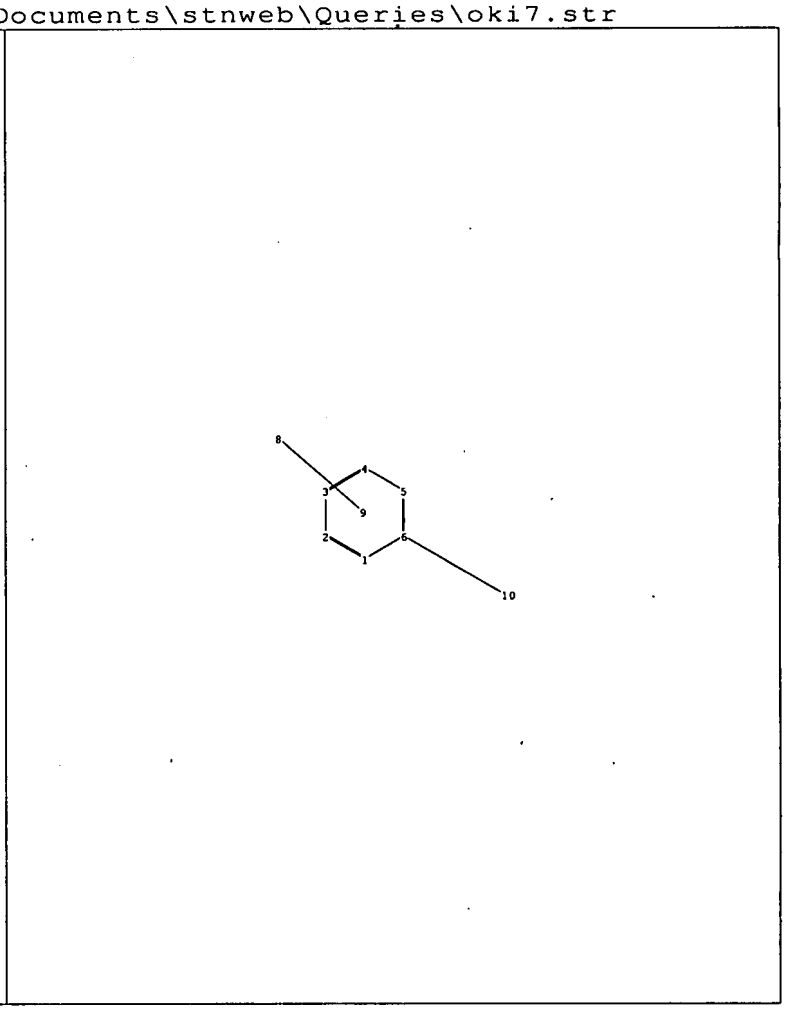


chain nodes :
7 8 10
ring nodes :
1 2 3 4 5 6
chain bonds :
6-7 7-8
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact bonds :
6-7 7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:CLASS
11:Atom

C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\oki7.str

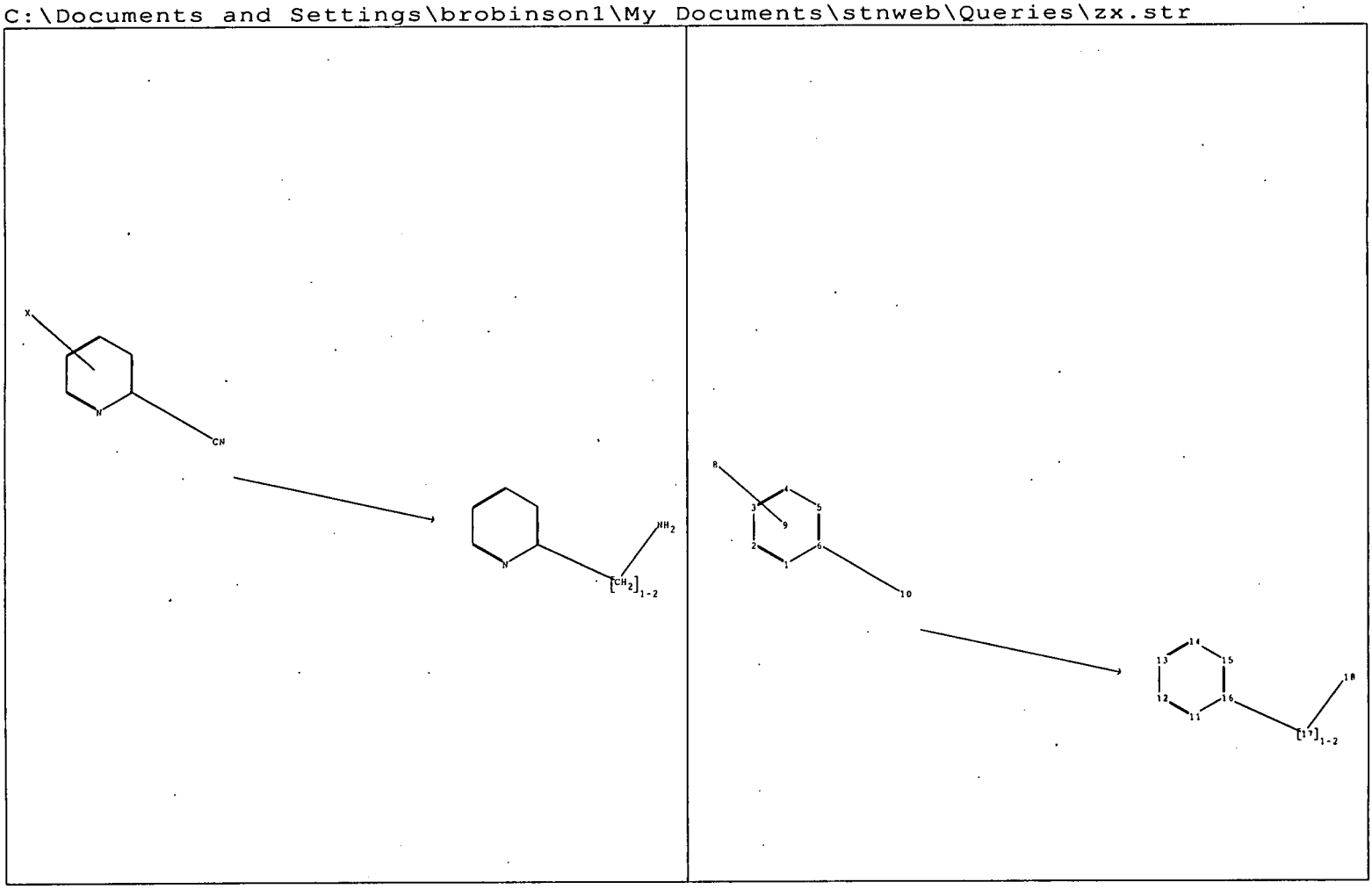




chain nodes :
8 10
ring nodes :
1 2 3 4 5 6
chain bonds :
6-10
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact bonds :
6-10
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:Atom 10:CLASS

C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\zx.str



chain nodes :
8 10 17 18
ring nodes :
1 2 3 4 5 6 11 12 13 14 15 16
chain bonds :
6-10 16-17 17-18
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16
exact bonds :
6-10 16-17 17-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16
isolated ring systems :
containing 1 : 11 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:Atom 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS
fragments assigned reactant role:
containing 1
fragments assigned product role:
containing 11

10535723

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612bxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 3	MAR 16	CASREACT coverage extended
NEWS 4	MAR 20	MARPAT now updated daily
NEWS 5	MAR 22	LWPI reloaded
NEWS 6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 10	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 12	MAY 01	New CAS web site launched
NEWS 13	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 17	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 18	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 19	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 20	JUN 29	STN Viewer now available
NEWS 21	JUN 29	STN Express, Version 8.2, now available
NEWS 22	JUL 02	LEMBASE coverage updated
NEWS 23	JUL 02	LMEDLINE coverage updated
NEWS 24	JUL 02	SCISEARCH enhanced with complete author names
NEWS 25	JUL 02	CHEMCATS accession numbers revised
NEWS 26	JUL 02	CA/CAplus enhanced with utility model patents from China

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 4 MAY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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Updated Search

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:12:22 ON 06 JUL 2007

=>
=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:12:38 ON 06 JUL 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 JUL 2007 HIGHEST RN 941372-96-9
DICTIONARY FILE UPDATES: 5 JUL 2007 HIGHEST RN 941372-96-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

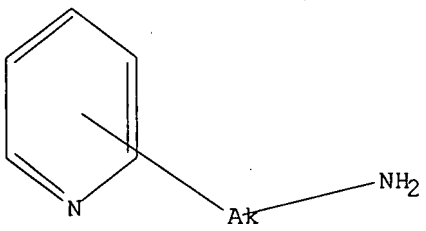
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\2a323f.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Updated Search

10535723

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 11:14:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 150568 TO ITERATE

1.3% PROCESSED 2000 ITERATIONS 7 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

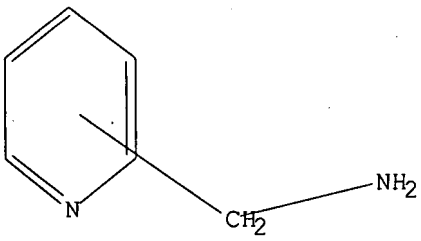
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 2988464 TO 3034256
PROJECTED ANSWERS: 9162 TO 11916

L2 7 SEA SSS SAM L1

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\rererh.str

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l3
SAMPLE SEARCH INITIATED 11:15:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 150568 TO ITERATE

1.3% PROCESSED 2000 ITERATIONS 6 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 2988464 TO 3034256
PROJECTED ANSWERS: 7759 TO 10309

L4 6 SEA SSS SAM L3

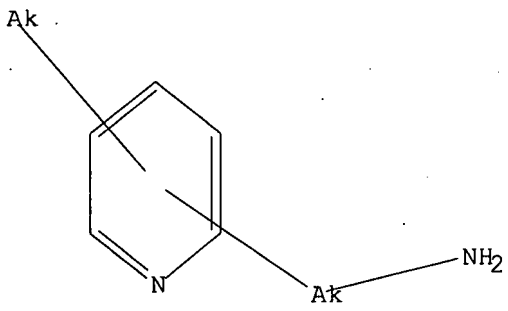
=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\qwj.str

Updated Search

10535723

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l5
SAMPLE SEARCH INITIATED 11:16:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 150568 TO ITERATE

1.3% PROCESSED 2000 ITERATIONS 4 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 2988464 TO 3034256
PROJECTED ANSWERS: 4981 TO 7063

L6 4 SEA SSS SAM L5

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\erern.str

L7 STRUCTURE UPLOADED

=> s l7
SAMPLE SEARCH INITIATED 11:17:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 150568 TO ITERATE

1.3% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 2988464 TO 3034256
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

Updated Search

10535723

```
=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\qmh.str

L9      STRUCTURE UPLOADED

=> s l9
SAMPLE SEARCH INITIATED 11:18:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   150568 TO ITERATE

  1.3% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:      2988464 TO  3034256
PROJECTED ANSWERS:               0 TO        0

L10           0 SEA SSS SAM L9

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\rmgy.str

L11     STRUCTURE UPLOADED

=> s l11
SAMPLE SEARCH INITIATED 11:19:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     9663 TO ITERATE

 20.7% PROCESSED     2000 ITERATIONS                                2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       187369 TO   199151
PROJECTED ANSWERS:               7 TO      379

L12           2 SEA SSS SAM L11

=> s l11 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 11:19:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   192512 TO ITERATE

100.0% PROCESSED   192512 ITERATIONS                              66 ANSWERS
SEARCH TIME: 00.00.01

L13          66 SEA SSS FUL L11

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              176.60     176.81

FILE 'HCAPLUS' ENTERED AT 11:19:19 ON 06 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


Updated Search
```

10535723

FILE COVERS 1907 - 6 Jul 2007 VOL 147 ISS 3
FILE LAST UPDATED: 5 Jul 2007 (20070705/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s l13
L14          89 L13

=> s l113/prep
L113 NOT FOUND
The L-number entered has not been defined in this session, or it
has been deleted.  To see the L-numbers currently defined in this
session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l13/prep
            89 L13
       4427949 PREP/RL
L15          57 L13/PREP
                  (L13 (L) PREP/RL)

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 2.60     179.41

FILE 'REGISTRY' ENTERED AT 11:19:38 ON 06 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES:    5 JUL 2007  HIGHEST RN 941372-96-9
DICTIONARY FILE UPDATES:   5 JUL 2007  HIGHEST RN 941372-96-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.
```

Updated Search

10535723

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\oki7.str

L16 STRUCTURE UPLOADED

=> s l16
SAMPLE SEARCH INITIATED 11:20:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 950 TO ITERATE

100.0% PROCESSED 950 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 17151 TO 20849
PROJECTED ANSWERS: 44 TO 476

L17 13 SEA SSS SAM L16

=> s l16 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 11:20:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 17958 TO ITERATE

100.0% PROCESSED 17958 ITERATIONS 338 ANSWERS
SEARCH TIME: 00.00.01

L18 338 SEA SSS FUL L16

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.55 351.96

FILE 'HCAPLUS' ENTERED AT 11:20:46 ON 06 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 6 Jul 2007 VOL 147 ISS 3

Updated Search

10535723

FILE LAST UPDATED: 5 Jul 2007 (20070705/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l18/rct
           560 L18
       2989518 RCT/RL
L19         455 L18/RCT
                (L18 (L) RCT/RL)

=> d his

     (FILE 'HOME' ENTERED AT 11:12:22 ON 06 JUL 2007)

     FILE 'REGISTRY' ENTERED AT 11:12:38 ON 06 JUL 2007
L1                STRUCTURE UPLOADED
L2              7 S L1
L3                STRUCTURE UPLOADED
L4              6 S L3
L5                STRUCTURE UPLOADED
L6              4 S L5
L7                STRUCTURE UPLOADED
L8              0 S L7
L9                STRUCTURE UPLOADED
L10             0 S L9
L11               STRUCTURE UPLOADED
L12             2 S L11
L13            66 S L11 FULL

     FILE 'HCAPLUS' ENTERED AT 11:19:19 ON 06 JUL 2007
L14            89 S L13
L15            57 S L13/PREP

     FILE 'REGISTRY' ENTERED AT 11:19:38 ON 06 JUL 2007
L16               STRUCTURE UPLOADED
L17            13 S L16
L18           338 S L16 FULL

     FILE 'HCAPLUS' ENTERED AT 11:20:46 ON 06 JUL 2007
L19           455 S L18/RCT

=> s l19 and l15
L20           36 L19 AND L15

=> file reg
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY     SESSION
FULL ESTIMATED COST                            2.60      354.56

FILE 'REGISTRY' ENTERED AT 11:21:03 ON 06 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.
```

Updated Search

10535723

STRUCTURE FILE UPDATES: 5 JUL 2007 HIGHEST RN 941372-96-9
DICTIONARY FILE UPDATES: 5 JUL 2007 HIGHEST RN 941372-96-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

```
=> e nickel/rn
E1            1     99999-98-1/RN
E2            1     99999-99-2/RN
E3            0 --> NICKEL/RN
**** END OF FIELD ****

=> e nickel/cn
E1            1     NICKASE TRAA (PLASMID PLW1071) GENE TRAA)/CN
E2            1     NICKASE-HELICASE (PLASMID TI PLASMID PTI15955 GENE TRAA)/CN
E3            1 --> NICKEL/CN
E4            1     NICKEL (0), BIS(METHANETRICARBONITRILATO)DINITROSYLBIS(TRICY
                    CLOHEXYLPHOSPHINE)DI-/CN
E5            1     NICKEL (1+) ACETYLACETONATE/CN
E6            1     NICKEL (1+), HYDROTRIS(TRIETHYLPHOSPHINE)-/CN
E7            1     NICKEL (19.2-31.0), ZINC (69.0-80.8) (ATOMIC)/CN
E8            1     NICKEL (2+) ORTHOPHOSPHATE OCTAHYDRATE/CN
E9            1     NICKEL (2+), HEXAAMMINE-, BIS(METABORATE)/CN
E10           1     NICKEL (25.6), TIN (1.5), ZINC (72.9) (ATOMIC)/CN
E11           1     NICKEL (58NI1+)/CN
E12           1     NICKEL (ADENINE) DIBROMIDE/CN

=> s e3
L21           1 NICKEL/CN

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               5.40     359.96

FILE 'HCAPLUS' ENTERED AT 11:21:21 ON 06 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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```


Updated Search

FILE COVERS 1907 - 6 Jul 2007 VOL 147 ISS 3
FILE LAST UPDATED: 5 Jul 2007 (20070705/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l21
L22     342935 L21

=> s l21/cat
        342935 L21
        631560 CAT/RL
L23      34808 L21/CAT
                (L21 (L) CAT/RL)

=> s l21/catalyst
'CATALYST' IS NOT A VALID CROSSOVER QUALIFIER FOR L21
Answer sets created in a different file may be field qualified with a
limited set of qualifiers.  Enter HELP CROSSOVER at an arrow prompt
(=>) for specific information.

=> d his

     (FILE 'HOME' ENTERED AT 11:12:22 ON 06 JUL 2007)

     FILE 'REGISTRY' ENTERED AT 11:12:38 ON 06 JUL 2007
L1              STRUCTURE UPLOADED
L2            7 S L1
L3              STRUCTURE UPLOADED
L4            6 S L3
L5              STRUCTURE UPLOADED
L6            4 S L5
L7              STRUCTURE UPLOADED
L8            0 S L7
L9              STRUCTURE UPLOADED
L10           0 S L9
L11             STRUCTURE UPLOADED
L12           2 S L11
L13          66 S L11 FULL

     FILE 'HCAPLUS' ENTERED AT 11:19:19 ON 06 JUL 2007
L14          89 S L13
L15          57 S L13/PREP

     FILE 'REGISTRY' ENTERED AT 11:19:38 ON 06 JUL 2007
L16             STRUCTURE UPLOADED
L17          13 S L16
L18         338 S L16 FULL

     FILE 'HCAPLUS' ENTERED AT 11:20:46 ON 06 JUL 2007
L19         455 S L18/RCT
L20          36 S L19 AND L15
```

Updated Search

10535723

FILE 'REGISTRY' ENTERED AT 11:21:03 ON 06 JUL 2007
E NICKEL/RN
E NICKEL/CN
L21 1 S E3

FILE 'HCAPLUS' ENTERED AT 11:21:21 ON 06 JUL 2007
L22 342935 S L21
L23 34808 S L21/CAT

=> s l22 and l23
L24 34808 L22 AND L23

=> s l22 and l20
L25 2 L22 AND L20

=> d l25, ibib abs hitstr, 1-2

L25 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:427623 HCAPLUS
DOCUMENT NUMBER: 141:7024
TITLE: A novel process for the preparation of 2-aminomethylpyridine derivatives via Ni-catalized hydrogenation of 2-cyanopyridine derivatives
INVENTOR(S): Vangelisti, Manuel
PATENT ASSIGNEE(S): Bayer Cropscience Sa, Fr.
SOURCE: Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1422221	A1	20040526	EP 2002-356236	20021120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2004046114	A1	20040603	WO 2003-EP14892	20031118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003290121	A1	20040615	AU 2003-290121	20031118
BR 2003014461	A	20050726	BR 2003-14461	20031118
EP 1565440	A1	20050824	EP 2003-782483	20031118
EP 1565440	B1	20061220		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1711244	A	20051221	CN 2003-80103328	20031118
JP 2006508143	T	20060309	JP 2004-552709	20031118
AT 348811	T	20070115	AT 2003-782483	20031118
US 2006004206	A1	20060105	US 2005-535723	20050520
PRIORITY APPLN. INFO.:			EP 2002-356236 A	20021120

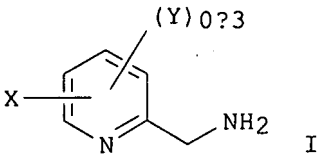
Updated Search

10535723

WO 2003-EP14892 W 20031118

OTHER SOURCE(S): CASREACT 141:7024; MARPAT 141:7024

GI



I

AB The invention relates to a process for the preparation of 2-aminomethylpyridine derivs. of formula I [wherein: X is halogen atom; each Y may be the same or different and may be a halogen atom, a halogenoalkyl, an alkoxycarbonyl or an alkylsulfonyl], useful as intermediates for preparation of pesticides. 2-Aminomethyl-3-chloro-5-trifluoromethylpyridine was prepared via Raney Ni-catalized hydrogenation of 2-cyano-3-chloro-5-trifluoromethylpyridine with a yield of 97%. The advantages of the proposed preparation of 2-aminomethylpyridine derivs. include the use of Raney nickel catalyst instead of expensive Pd catalyst (the Pd-catalized hydrogenation suffers from the disadvantage of dehalogenation reaction; Pd is also very sensitive to catalysts poisons).

IT 7440-02-0, Raney nickel, uses
RL: CAT (Catalyst use); USES (Uses)
(catalysts; novel process for the preparation of aminomethylpyridine derivs. via Raney Ni-catalized hydrogenation of cyanopyridine derivs.)

RN 7440-02-0 HCAPLUS

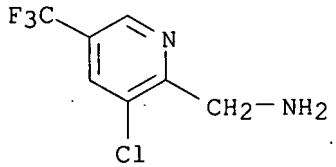
CN Nickel (CA INDEX NAME)

Ni

IT 175277-74-4P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(novel process for the preparation of aminomethylpyridine derivs. via Raney Ni-catalized hydrogenation of cyanopyridine derivs.)

RN 175277-74-4 HCAPLUS

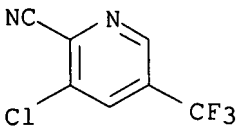
CN 2-Pyridinemethanamine, 3-chloro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



IT 80194-70-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; novel process for the preparation of aminomethylpyridine derivs.

Updated Search

via Raney Ni-catalized hydrogenation of cyanopyridine derivs.)
RN 80194-70-3 HCAPLUS
CN 2-Pyridinecarbonitrile, 3-chloro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:157737 HCAPLUS
DOCUMENT NUMBER: 136:200109
TITLE: Process for preparation of 2-aminomethylpyridines by catalytic hydrogenation of 2-cyanopyridines.
INVENTOR(S): Dann, Norman; Riordan, Peter Dominic; Amin, Mehul Rasikchandra; Mellor, Michael
PATENT ASSIGNEE(S): Aventis CropScience SA, Fr.
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016322	A2	20020228	WO 2001-EP10984	20010821
WO 2002016322	A3	20020606		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1199305	A1	20020424	EP 2001-420128	20010607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CA 2415842	A1	20020228	CA 2001-2415842	20010821
AU 200213948	A	20020304	AU 2002-13948	20010821
EP 1311483	A2	20030521	EP 2001-982337	20010821
EP 1311483	B1	20061220		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001013259	A	20030715	BR 2001-13259	20010821
JP 2004506716	T	20040304	JP 2002-521198	20010821
RU 2266900	C2	20051227	RU 2003-107931	20010821
CN 1721406	A	20060118	CN 2005-10088220	20010821
AT 348810	T	20070115	AT 2001-982337	20010821
EP 1746089	A1	20070124	EP 2006-120806	20010821

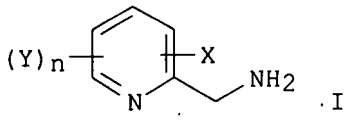
10535723

R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, TR

IN 2003MN00064	A	20050204	IN 2003-MN64		20030113
US 2004049048	A1	20040311	US 2003-362728		20030611
US 6921828	B2	20050726			
US 2005250947	A1	20051110	US 2005-177118		20050708
PRIORITY APPLN. INFO.:			GB 2000-21066	A	20000825
			GB 2000-25616	A	20001019
			EP 2001-420128	A	20010607
			CN 2001-814622	A3	20010821
			EP 2001-982337	A3	20010821
			WO 2001-EP10984	W	20010821
			US 2003-362728	A1	20030611

OTHER SOURCE(S): CASREACT 136:200109; MARPAT 136:200109

GI



I

AB Title compds. (I; X = halo; Y = halo, haloalkyl, alkoxycarbonyl, alkylsulfonyl; n = 0-3) were prepared by catalytic hydrogenation of the corresponding 2-cyano derivs. Thus, 3-chloro-2-cyano-5-trifluoromethylpyridine (preparation given) was hydrogenated in MeOH over Pd/C containing HCl at 1 atmospheric to give 95-97% 2-aminomethyl-3-chloro-5-trifluoromethylpyridine hydrochloride.

IT 7440-02-0, Nickel, uses
RL: CAT (Catalyst use); USES (Uses)
(process for preparation of 2-aminomethylpyridines by catalytic hydrogenation of 2-cyanopyridines)

RN 7440-02-0 HCAPLUS

CN Nickel (CA INDEX NAME)

Ni

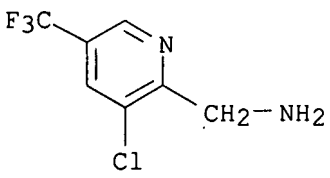
IT 326476-49-7P, 2-Aminomethyl-3-chloro-5-trifluoromethylpyridine hydrochloride
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process for preparation of 2-aminomethylpyridines by catalytic hydrogenation of 2-cyanopyridines)

RN 326476-49-7 HCAPLUS

CN 2-Pyridinemethanamine, 3-chloro-5-(trifluoromethyl)-, hydrochloride (1:1) (CA INDEX NAME)

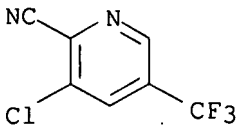
Updated Search

10535723



● HCl

IT 80194-70-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparation of 2-aminomethylpyridines by catalytic hydrogenation of 2-cyanopyridines)
RN 80194-70-3 HCAPLUS
CN 2-Pyridinecarbonitrile, 3-chloro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.14	373.10

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

FILE 'CAOLD' ENTERED AT 11:22:10 ON 06 JUL 2007
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for

Updated Search

more information.

```
=> d his

     (FILE 'HOME' ENTERED AT 11:12:22 ON 06 JUL 2007)

     FILE 'REGISTRY' ENTERED AT 11:12:38 ON 06 JUL 2007
L1             STRUCTURE UPLOADED
L2           7 S L1
L3             STRUCTURE UPLOADED
L4           6 S L3
L5             STRUCTURE UPLOADED
L6           4 S L5
L7             STRUCTURE UPLOADED
L8           0 S L7
L9             STRUCTURE UPLOADED
L10          0 S L9
L11            STRUCTURE UPLOADED
L12          2 S L11
L13         66 S L11 FULL

     FILE 'HCAPLUS' ENTERED AT 11:19:19 ON 06 JUL 2007
L14         89 S L13
L15         57 S L13/PREP

     FILE 'REGISTRY' ENTERED AT 11:19:38 ON 06 JUL 2007
L16            STRUCTURE UPLOADED
L17         13 S L16
L18        338 S L16 FULL

     FILE 'HCAPLUS' ENTERED AT 11:20:46 ON 06 JUL 2007
L19        455 S L18/RCT
L20         36 S L19 AND L15

     FILE 'REGISTRY' ENTERED AT 11:21:03 ON 06 JUL 2007
               E NICKEL/RN
               E NICKEL/CN
L21          1 S E3

     FILE 'HCAPLUS' ENTERED AT 11:21:21 ON 06 JUL 2007
L22     342935 S L21
L23      34808 S L21/CAT
L24      34808 S L22 AND L23
L25          2 S L22 AND L20

     FILE 'CAOLD' ENTERED AT 11:22:10 ON 06 JUL 2007

=> s l22 and l20
QUALIFICATION NOT VALID FOR L18
Field code qualifications can only be applied to text
terms.

=> s l18 and l21
            10 L18
             0 L21
L26          0 L18 AND L21

=> file casreact
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
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10535723

	ENTRY	SESSION
FULL ESTIMATED COST	0.45	373.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

FILE 'CASREACT' ENTERED AT 11:22:48 ON 06 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

FILE CONTENT:1840 - 30 Jun 2007 VOL 147 ISS 2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
************************************************************
*                                                          *
*     CASREACT now has more than 12 million reactions      *
*                                                          *
************************************************************
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\zx.str

L27 STRUCTURE UPLOADED

=> s l27
SAMPLE SEARCH INITIATED 11:24:40 FILE 'CASREACT'
SCREENING COMPLETE - 332 REACTIONS TO VERIFY FROM 49 DOCUMENTS

100.0% DONE 332 VERIFIED 1 HIT RXNS 1 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 5548 TO 7732
PROJECTED ANSWERS: 1 TO 79

L28 1 SEA SSS SAM L27 (1 REACTIONS)

=> s l27 full
THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 113.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 11:24:47 FILE 'CASREACT'
SCREENING COMPLETE - 7961 REACTIONS TO VERIFY FROM 1065 DOCUMENTS

100.0% DONE 7961 VERIFIED 11 HIT RXNS 7 DOCS

Updated Search

10535723

SEARCH TIME: 00.00.05

L29 7 SEA SSS FUL L27 (11 REACTIONS)

=> d l29, ibib abs hitrxn, 1-7
'HITRXN' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS -------- GI and AB
ALL -------- BIB, AB, IND, RE, Single-step Reactions
APPS ------- AI, PRAI
BIB -------- AN, plus Bibliographic Data
CAN -------- List of CA abstract numbers without answer numbers
CBIB ------- AN, plus Compressed Bibliographic Data
DALL ------- ALL, delimited (end of each field identified)
IABS ------- ABS, indented with text labels
IALL ------- ALL, indented with text labels
IBIB ------- BIB, indented with text labels
IND -------- Indexing data
IPC -------- International Patent Classifications
ISTD ------- STD, indented with text labels
OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

MAX -------- Same as ALL
PATS ------- PI, SO
SCAN ------- TI and FCRD (random display, no answer number. SCAN must be entered on the same line as DISPLAY, e.g., D SCAN.)
SSRX ------- Single-Step Reactions (Map, Diagram, and Summary for all single-step reactions)
STD -------- BIB, IPC, and NCL

CRD -------- Compact Display of All Hit Reactions
CRDREF ----- Compact Reaction Display and SO, PY for Reference
FHIT ------- Reaction Map, Diagram, and Summary for first hit reaction
FHITCBIB --- FHIT, AN plus CBIB
FCRD ------- First hit in Compact Reaction Display (CRD) format
FCRDREF ---- First hit in Compact Reaction Display (CRD) format with CA reference information (SO, PY). (Default)
FPATH ------ PATH, plus Reaction Summary for the "long path"
FSPATH ----- SPATH, plus Reaction Summary for the "short path"
HIT -------- Reaction Map, Reaction Diagram, and Reaction Summary for all hit reactions and fields containing hit terms
OCC -------- All hit fields and the number of occurrences of the hit terms in each field. Includes total number of HIT, PATH, SPATH reactions. Labels reactions that have incomplete verifications.
PATH ------- Reaction Map and Reaction Diagram for the "long path". Displays all hit reactions, except those whose steps are totally included within another hit reaction which is displayed
RX --------- Hit Reactions (Map, Diagram, Summary for all hit reactions)

Updated Search

10535723

RXG -------- Hit Reaction Graphics (Map and Diagram for all hit reactions)
RXL -------- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)
RXS -------- Hit Reaction Summariers (Map and Summary for all hit reactions)
SPATH ------ Reaction Map and Reaction Diagram for the "short path". Displays all single step reactions which contain a hit substance. Also displays those multistep reactions that have a hit substance in both the first and last steps of the reaction, except for those hit reactions whose steps are totally included within another hit reaction which is displayed

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of combinations include: D TI; D BIB RX; D TI, AU, FCRD. The information is displayed in the same order as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):d his
'D' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS -------- GI and AB
ALL -------- BIB, AB, IND, RE, Single-step Reactions
APPS ------- AI, PRAI
BIB -------- AN, plus Bibliographic Data
CAN -------- List of CA abstract numbers without answer numbers
CBIB ------- AN, plus Compressed Bibliographic Data
DALL ------- ALL, delimited (end of each field identified)
IABS ------- ABS, indented with text labels
IALL ------- ALL, indented with text labels
IBIB ------- BIB, indented with text labels
IND -------- Indexing data
IPC -------- International Patent Classifications
ISTD ------- STD, indented with text labels
OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

MAX -------- Same as ALL
PATS ------- PI, SO
SCAN ------- TI and FCRD (random display, no answer number. SCAN must be entered on the same line as DISPLAY, e.g., D SCAN.)
SSRX ------- Single-Step Reactions (Map, Diagram, and Summary for all single-step reactions)
STD -------- BIB, IPC, and NCL

CRD -------- Compact Display of All Hit Reactions
CRDREF ----- Compact Reaction Display and SO, PY for Reference
FHIT ------- Reaction Map, Diagram, and Summary for first hit reaction
FHITCBIB --- FHIT, AN plus CBIB
FCRD ------- First hit in Compact Reaction Display (CRD) format

Updated Search

10535723

FCRDREF ---- First hit in Compact Reaction Display (CRD) format with CA reference information (SO, PY). (Default)
FPATH ------ PATH, plus Reaction Summary for the "long path"
FSPATH ----- SPATH, plus Reaction Summary for the "short path"
HIT -------- Reaction Map, Reaction Diagram, and Reaction Summary for all hit reactions and fields containing hit terms
OCC -------- All hit fields and the number of occurrences of the hit terms in each field. Includes total number of HIT, PATH, SPATH reactions. Labels reactions that have incomplete verifications.
PATH ------- Reaction Map and Reaction Diagram for the "long path". Displays all hit reactions, except those whose steps are totally included within another hit reaction which is displayed
RX --------- Hit Reactions (Map, Diagram, Summary for all hit reactions)
RXG -------- Hit Reaction Graphics (Map and Diagram for all hit reactions)
RXL -------- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)
RXS -------- Hit Reaction Summariers (Map and Summary for all hit reactions)
SPATH ------ Reaction Map and Reaction Diagram for the "short path". Displays all single step reactions which contain a hit substance. Also displays those multistep reactions that have a hit substance in both the first and last steps of the reaction, except for those hit reactions whose steps are totally included within another hit reaction which is displayed

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of combinations include: D TI; D BIB RX; D TI, AU, FCRD. The information is displayed in the same order as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):end

=> d his

(FILE 'HOME' ENTERED AT 11:12:22 ON 06 JUL 2007)

FILE 'REGISTRY' ENTERED AT 11:12:38 ON 06 JUL 2007
L1 STRUCTURE UPLOADED
L2 7 S L1
L3 STRUCTURE UPLOADED
L4 6 S L3
L5 STRUCTURE UPLOADED
L6 4 S L5
L7 STRUCTURE UPLOADED
L8 0 S L7
L9 STRUCTURE UPLOADED
L10 0 S L9
L11 STRUCTURE UPLOADED
L12 2 S L11
L13 66 S L11 FULL

FILE 'HCAPLUS' ENTERED AT 11:19:19 ON 06 JUL 2007
L14 89 S L13

Updated Search

10535723

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L15          57 S L13/PREP

     FILE 'REGISTRY' ENTERED AT 11:19:38 ON 06 JUL 2007
L16             STRUCTURE UPLOADED
L17          13 S L16
L18         338 S L16 FULL

     FILE 'HCAPLUS' ENTERED AT 11:20:46 ON 06 JUL 2007
L19         455 S L18/RCT
L20          36 S L19 AND L15

     FILE 'REGISTRY' ENTERED AT 11:21:03 ON 06 JUL 2007
               E NICKEL/RN
               E NICKEL/CN
L21           1 S E3

     FILE 'HCAPLUS' ENTERED AT 11:21:21 ON 06 JUL 2007
L22      342935 S L21
L23       34808 S L21/CAT
L24       34808 S L22 AND L23
L25           2 S L22 AND L20

     FILE 'CAOLD' ENTERED AT 11:22:10 ON 06 JUL 2007
L26           0 S L18 AND L21

     FILE 'CASREACT' ENTERED AT 11:22:48 ON 06 JUL 2007
L27             STRUCTURE UPLOADED
L28           1 S L27
L29           7 S L27 FULL

=> d l29, ibib abs fhit, 1-7


L29  ANSWER 1 OF 7  CASREACT  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         144:331318  CASREACT
TITLE:                    Biological evaluation of isothiazoloquinolones
                          containing aromatic heterocycles at the 7-position: In
                          vitro activity of a series of potent antibacterial
                          agents that are effective against methicillin-
                          resistant Staphylococcus aureus
AUTHOR(S):                Wiles, Jason A.; Song, Yongsheng; Wang, Qiuping;
                          Lucien, Edlaine; Hashimoto, Akihiro; Cheng, Jijun;
                          Marlor, Christopher W.; Ou, Yangsi; Podos, Steven D.;
                          Thanassi, Jane A.; Thoma, Christy L.; Deshpande,
                          Milind; Pucci, Michael J.; Bradbury, Barton J.
CORPORATE SOURCE:         Achillion Pharmaceuticals, Inc., New Haven, CT,
                          06511-6653, USA
SOURCE:                   Bioorganic & Medicinal Chemistry Letters (2006),
                          16(5), 1277-1281
                          CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER:                Elsevier B.V.
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
AB   A diverse series of 9H-isothiazolo[5,4-b]quinoline-3,4-diones containing
     heteroarom. groups at the 7-position was prepared via palladium-catalyzed
     cross-coupling.  Many of these compds. demonstrated potent
     antistaphylococcal activity (MICs ≤2 μg/mL) against a
     multi-drug-resistant strain (ATCC 700699) and low cytotoxic activity (CC50
     > 100 μM) against the human cell line Hep2 (laryngeal carcinoma).
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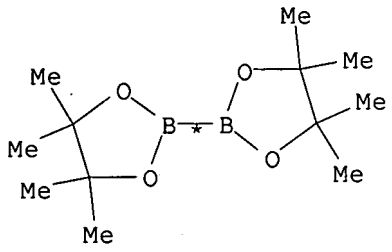
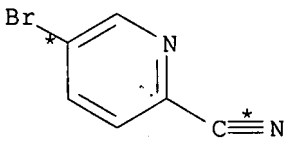
Updated Search

RX(46) OF 56 COMPOSED OF RX(40), RX(41)
RX(46) CI + CE ===> AD

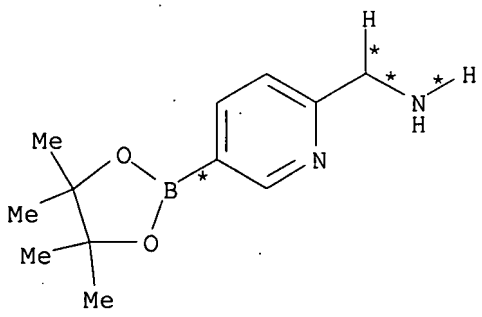


CI



CE

2
STEPS



AD
YIELD 100%

RX(40) RCT CI 73183-34-3, CE 97483-77-7
RGT CK 127-08-2 AcOK
PRO CJ 741709-63-7
CAT 72287-26-4 Palladium, [1,1'-bis(diphenylphosphino-κP)ferrocene]dichloro-, (SP-4-2)-
SOL 67-68-5 DMSO
CON 25 hours, 80 deg C

RX(41) RCT CJ 741709-63-7
RGT CN 1333-74-0 H2
PRO AD 880495-82-9
CAT 7440-05-3 Pd
SOL 64-19-7 AcOH
CON 16 hours, room temperature

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 2 OF 7 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 142:240471 CASREACT
TITLE: Preparation of benzodiazepine derivatives as CGRP receptor antagonists

Updated Search

10535723

INVENTOR(S): Burgey, Christopher S.; Stump, Craig A.; Williams, Theresa M.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005013894	A2	20050217	WO 2004-US20209	20040624
WO 2005013894	A3	20060302		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004263080	A1	20050217	AU 2004-263080	20040624
CA 2529196	A1	20050217	CA 2004-2529196	20040624
EP 1641423	A2	20060405	EP 2004-776997	20040624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1842526	A	20061004	CN 2004-80017996	20040624
JP 2007516183	T	20070621	JP 2006-517599	20040624
US 2006135511	A1	20060622	US 2005-562297	20051222
PRIORITY APPLN. INFO.:			US 2003-482854P	20030626
			WO 2004-US20209	20040624

OTHER SOURCE(S): MARPAT 142:240471
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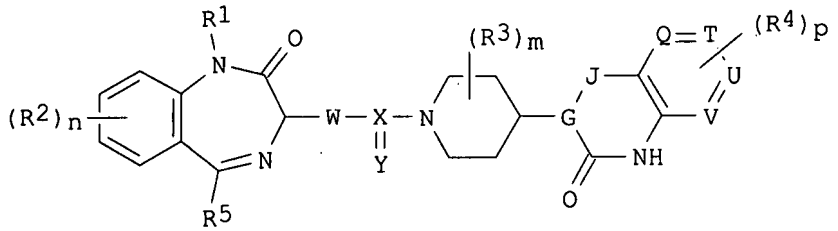
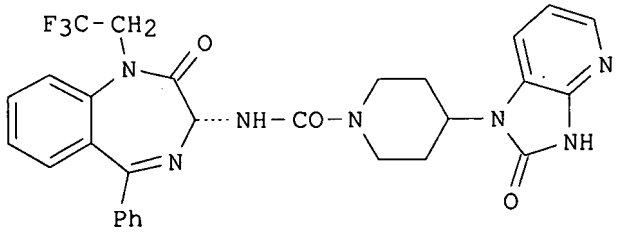


I



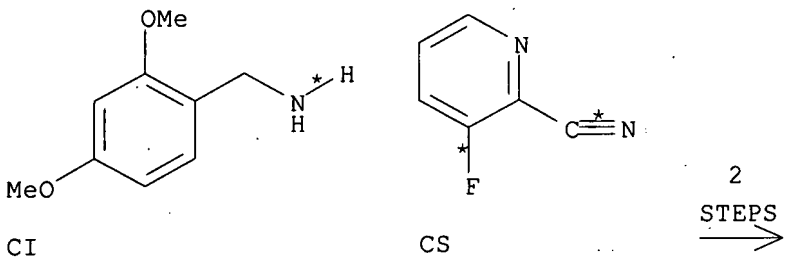
II

Updated Search

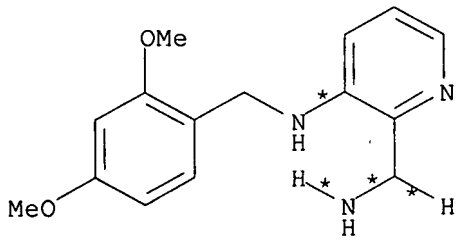
10535723

AB Benzodiazepine derivs. of formula I [R1 = H, alkyl, cycloalkyl, aryl, etc.; R2 = H, alkyl, cycloalkyl, aryl, etc.; R3 = H, alkyl, CO2H, alkoxycarbonyl; R4 = H, alkyl, cycloalkyl, aryl, etc.; R5 = H, alkyl, cycloalkyl, etc.; n = 1-4; m = 1-9; p = 1-4; W = O, (substituted) NH, (substituted) CH2; X = C, S; Y = O, NCONH2, etc.; G, J = N, NCH2, etc.; Q, T, U, V = CH, N; with provisos] are prepared as antagonists of CGRP receptors, and are useful in the treatment or prevention of diseases in which the CGRP is involved, such as headache, migraine and cluster headache. The invention is also directed to pharmaceutical compns. comprising these compds. and the use of these compds. and compns. in the prevention or treatment of such diseases in which CGRP is involved. Thus, II was prepared in several steps. The prepared compds. had IC50 values < 50 μM against CGRP receptor.

RX(83) OF 165 COMPOSED OF RX(42), RX(43)
RX(83) CI + CS ===> CU



CI CS



CU

RX(42) RCT CI 20781-20-8, CS 97509-75-6

STAGE(1)
RGT E 121-44-8 Et3N
SOL 127-19-5 AcNMe2
CON 4 hours, 80 deg C

STAGE(2)
RGT U 7732-18-5 Water

PRO CT 784155-72-2

RX(43) RCT CT 784155-72-2

Updated Search

10535723

STAGE(1)
RGT CN 16853-85-3 LiAlH4
SOL 109-99-9 THF
CON SUBSTAGE(1) 0 deg C
SUBSTAGE(2) 0 deg C -> room temperature
SUBSTAGE(3) 4 hours, room temperature

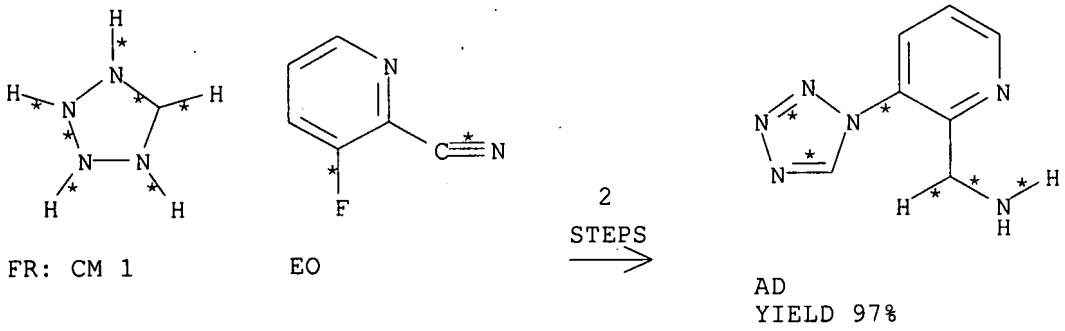
STAGE(2)
RGT CO 7757-82-6 Na2SO4
SOL 7732-18-5 Water
CON room temperature

PRO CU 784155-73-3

L29 ANSWER 3 OF 7 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 141:123579 CASREACT
TITLE: Discovery and Evaluation of Potent P1 Aryl Heterocycle-Based Thrombin Inhibitors
AUTHOR(S): Young, Mary Beth; Barrow, James C.; Glass, Kristen L.; Lundell, George F.; Newton, Christina L.; Pellicore, Janetta M.; Rittle, Kenneth E.; Selnick, Harold G.; Stauffer, Kenneth J.; Vacca, Joseph P.; Williams, Peter D.; Bohn, Dennis; Clayton, Franklin C.; Cook, Jacquelynn J.; Krueger, Julie A.; Kuo, Lawrence C.; Lewis, S. Dale; Lucas, Bobby J.; McMasters, Daniel R.; Miller-Stein, Cynthia; Pietrak, Beth L.; Wallace, Audrey A.; White, Rebecca B.; Wong, Bradley; Yan, Youwei; Nantermet, Philippe G.
CORPORATE SOURCE: Medicinal Chemistry, Pharmacology, Biological Chemistry, Structural Biology, Molecular Systems and Drug Metabolism, Merck Research Laboratories, Merck and Co. Inc., West Point, PA, 19486, USA
SOURCE: Journal of Medicinal Chemistry (2004), 47(12), 2995-3008
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In an effort to discover potent, clin. useful thrombin inhibitors, a rapid analog synthetic approach was used to explore the P1 region. Various benzylamines were coupled to a pyridine/pyrazinone P2-P3 template. One compound, i.e. 2-[6-chloro-3-(2,2-difluoro-2-pyridin-2-yl-ethylamino)-2-oxo-2H-pyrazin-1-yl]-N-(2-[1,2,3]thiadiazol-4-yl-benzyl)acetamide, was found to have a thrombin Ki of 0.84 nM. A study of ortho-substituted five-membered-ring heterocycles was undertaken and subsequently demonstrated that the o-triazole and tetrazole rings were optimal. Combination of these potent P1 aryl heterocycles with a variety of P2-P3 groups produced a compound with an extraordinary thrombin inhibitory activity of 1.4 pM. It is hoped that this potency enhancement in P1 will allow for more diversification in the P2-P3 region to ultimately address addnl. pharmacol. concerns.

RX(158) OF 284 COMPOSED OF RX(84), RX(85)
RX(158) FR + EO ===> AD

Updated Search



FR: CM 1 EO AD
YIELD 97%

RX(84) RCT FR 27988-97-2

STAGE(1)
RGT FT 2052-49-5 Bu4NOH
SOL 7732-18-5 Water, 68-12-2 DMF

STAGE(2)
RCT EO 97509-75-6
CON 4 days, room temperature

PRO FS 449758-32-1

RX(85) RCT FS 449758-32-1
RGT CR 1333-74-0 H2
PRO AD 449756-99-4
CAT 7440-05-3 Pd
SOL 64-17-5 EtOH
CON overnight, room temperature, 55 psi

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 4 OF 7 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 141:7024 CASREACT
TITLE: A novel process for the preparation of 2-aminomethylpyridine derivatives via Ni-catalized hydrogenation of 2-cyanopyridine derivatives
INVENTOR(S): Vangelisti, Manuel
PATENT ASSIGNEE(S): Bayer Cropscience Sa, Fr.
SOURCE: Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1422221	A1	20040526	EP 2002-356236	20021120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2004046114	A1	20040603	WO 2003-EP14892	20031118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

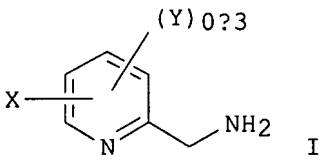
Updated Search

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003290121	A1	20040615	AU 2003-290121	20031118	
BR 2003014461	A	20050726	BR 2003-14461	20031118	
EP 1565440	A1	20050824	EP 2003-782483	20031118	
EP 1565440	B1	20061220			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
CN 1711244	A	20051221	CN 2003-80103328	20031118	
JP 2006508143	T	20060309	JP 2004-552709	20031118	
AT 348811	T	20070115	AT 2003-782483	20031118	
US 2006004206	A1	20060105	US 2005-535723	20050520	
PRIORITY APPLN. INFO.:			EP 2002-356236	20021120	
			WO 2003-EP14892	20031118	

OTHER SOURCE(S): MARPAT 141:7024

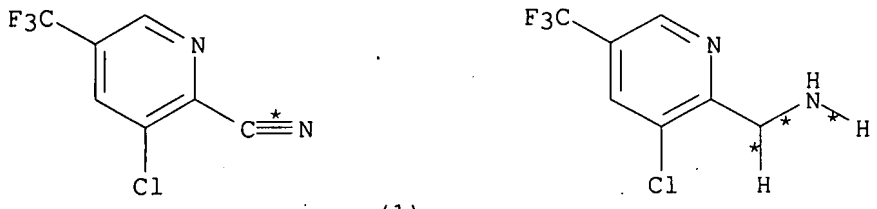
GI



I

AB The invention relates to a process for the preparation of 2-aminomethylpyridine derivs. of formula I [wherein: X is halogen atom; each Y may be the same or different and may be a halogen atom, a halogenoalkyl, an alkoxycarbonyl or an alkylsulfonyl], useful as intermediates for preparation of pesticides. 2-Aminomethyl-3-chloro-5-trifluoromethylpyridine was prepared via Raney Ni-catalized hydrogenation of 2-cyano-3-chloro-5-trifluoromethylpyridine with a yield of 97%. The advantages of the proposed preparation of 2-aminomethylpyridine derivs. include the use of Raney nickel catalyst instead of expensive Pd catalyst (the Pd-catalized hydrogenation suffers from the disadvantage of dehalogenation reaction; Pd is also very sensitive to catalysts poisons).

RX(1) OF 1 A ===> B



A

B
YIELD 97%

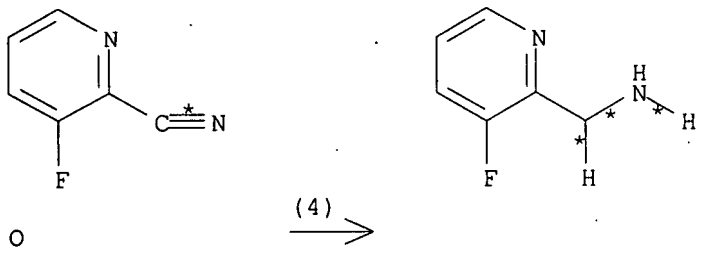
Updated Search

10535723

RX(1) RCT A 80194-70-3
RGT C 1333-74-0 H2
PRO B 175277-74-4
CAT 7440-02-0 Ni
SOL 64-19-7 AcOH
CON SUBSTAGE(1) room temperature -> 40 deg C, pH 7
SUBSTAGE(2) 2 hours, 40 deg C, 18 bar, pH 7
NTE Raney nickel used
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 5 OF 7 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 140:272675 CASREACT
TITLE: Development of a Scaleable Synthesis of a 3-Aminopyrazinone Acetamide Thrombin Inhibitor
AUTHOR(S): Ashwood, Michael S.; Alabaster, Ramon J.; Cottrell, Ian F.; Cowden, Cameron J.; Davies, Antony J.; Dolling, Ulf H.; Emerson, Khateeta M.; Gibb, Andrew D.; Hands, David; Wallace, Debra J.; Wilson, Robert D.
CORPORATE SOURCE: Department of Process Research, Merck Sharp and Dohme Research Laboratories, Hoddesdon, Hertfordshire, EN11 9BU, UK
SOURCE: Organic Process Research & Development (2004), 8(2), 192-200
CODEN: OPRDFK; ISSN: 1083-6160
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A scaleable route to 2-{3-[(2,2-difluoro-2-(2-pyridyl)ethyl)amino]-6-chloro-2-oxohydropyrazinyl}-N-[(3-fluoro(2-pyridyl))methyl]acetamide (I) is described in which various scaleup issues were addressed to provide a safe, efficient, and robust route for the preparation of multi-kilo amts. of the compound The use of expensive and toxic reagents, notably sodium azide, TMS-cyanide, and Deoxo-Fluor, and the need for specialist equipment were overcome in the preparation of the key fluorinated intermediates 2,2-difluoro-2-(2-pyridyl)ethylamine and 2-aminomethyl-3-fluoropyridine. With minimal isolations and through processing of intermediates, the thrombin inhibitor I was isolated in 36% overall yield.

RX(4) OF 84 ...O ===> R...



O

●2 HCl

R
YIELD 92%

Updated Search

10535723

RX(4) RCT O 97509-75-6
RGT S 7647-01-0 HCl, T 1333-74-0 H2
PRO R 312904-49-7
CAT 7440-05-3 Pd
SOL 64-17-5 EtOH
CON 18 hours, 20 deg C, 5 psi
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 6 OF 7 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 138:198146 CASREACT
TITLE: Metabolism-Directed Optimization of 3-Aminopyrazinone Acetamide Thrombin Inhibitors. Development of an Orally Bioavailable Series Containing P1 and P3 Pyridines
AUTHOR(S): Burgey, Christopher S.; Robinson, Kyle A.; Lyle, Terry A.; Sanderson, Philip E. J.; Lewis, S. Dale; Lucas, Bobby J.; Krueger, Julie A.; Singh, Rominder; Miller-Stein, Cynthia; White, Rebecca B.; Wong, Bradley; Lyle, Elizabeth A.; Williams, Peter D.; Coburn, Craig A.; Dorsey, Bruce D.; Barrow, James C.; Stranieri, Maria T.; Holahan, Marie A.; Sitko, Gary R.; Cook, Jacquelynn J.; McMasters, Daniel R.; McDonough, Colleen M.; Sanders, William M.; Wallace, Audrey A.; Clayton, Franklin C.; Bohn, Dennis; Leonard, Yvonne M.; Detwiler, Theodore J., Jr.; Lynch, Joseph J., Jr.; Yan, Youwei; Chen, Zhongguo; Kuo, Lawrence; Gardell, Stephen J.; Shafer, Jules A.; Vacca, Joseph P.
CORPORATE SOURCE: Departments of Medicinal Chemistry, Biological Chemistry, Drug Metabolism Molecular Systems, Structural Biology and Pharmacology, Merck Research Laboratories, West Point, PA, 19486, USA
SOURCE: Journal of Medicinal Chemistry (2003), 46(4), 461-473
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Recent efforts in the field of thrombin inhibitor research have focused on the identification of compds. with good oral bioavailability and pharmacokinetics. In this manuscript we describe a metabolism-based approach to the optimization of the 3-(2-phenethylamino)-6-methylpyrazinone acetamide template which resulted in the modification of each of the three principal components (i.e., P1, P2, P3) comprising this series. As a result of these studies, several potent thrombin inhibitors were identified which exhibit high levels of oral bioavailability and long plasma half-lives.

RX(6) OF 261 ...W ===> AA...

Updated Search

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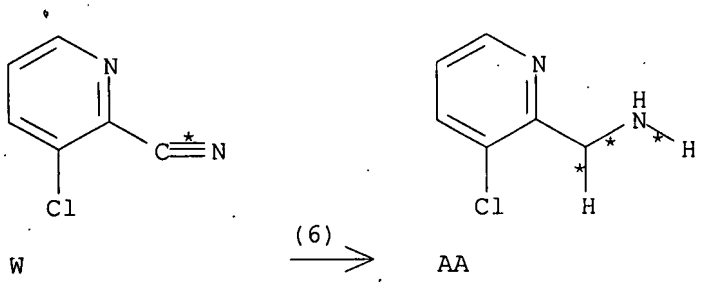

W (6) AA

RX(6) RCT W 38180-46-0
RGT AB 7664-41-7 NH3, AC 1333-74-0 H2
PRO AA 500305-98-6
CAT 7440-02-0 Ni
SOL 64-17-5 EtOH
CON 5 hours, 1 atm
NTE Raney nickel used
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 7 OF 7 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 136:200109 CASREACT
TITLE: Process for preparation of 2-aminomethylpyridines by catalytic hydrogenation of 2-cyanopyridines.
INVENTOR(S): Dann, Norman; Riordan, Peter Dominic; Amin, Mehul Rasikchandra; Mellor, Michael
PATENT ASSIGNEE(S): Aventis CropScience SA, Fr.
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016322	A2	20020228	WO 2001-EP10984	20010821
WO 2002016322	A3	20020606		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1199305	A1	20020424	EP 2001-420128	20010607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CA 2415842	A1	20020228	CA 2001-2415842	20010821
AU 200213948	A	20020304	AU 2002-13948	20010821
EP 1311483	A2	20030521	EP 2001-982337	20010821
EP 1311483	B1	20061220		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

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BR 2001013259	A	20030715	BR 2001-13259	20010821
JP 2004506716	T	20040304	JP 2002-521198	20010821
RU 2266900	C2	20051227	RU 2003-107931	20010821
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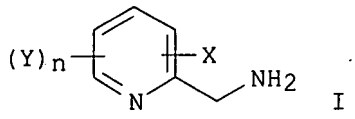
AT 348810	T	20070115	AT 2001-982337	20010821
EP 1746089	A1	20070124	EP 2006-120806	20010821
R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, TR				
IN 2003MN00064	A	20050204	IN 2003-MN64	20030113
US 2004049048	A1	20040311	US 2003-362728	20030611
US 6921828	B2	20050726		
US 2005250947	A1	20051110	US 2005-177118	20050708
PRIORITY APPLN. INFO.:			GB 2000-21066	20000825
			GB 2000-25616	20001019
			EP 2001-420128	20010607
			CN 2001-814622	20010821
			EP 2001-982337	20010821
			WO 2001-EP10984	20010821
			US 2003-362728	20030611

OTHER SOURCE(S): MARPAT 136:200109

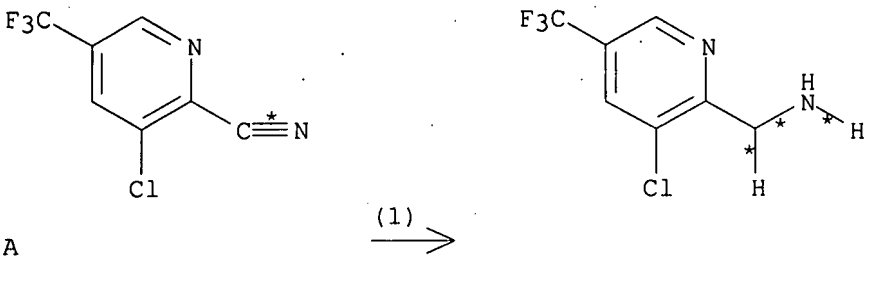
GI



I

AB Title compds. (I; X = halo; Y = halo, haloalkyl, alkoxycarbonyl, alkylsulfonyl; n = 0-3) were prepared by catalytic hydrogenation of the corresponding 2-cyano derivs. Thus, 3-chloro-2-cyano-5-trifluoromethylpyridine (preparation given) was hydrogenated in MeOH over Pd/C containing HCl at 1 atmospheric to give 95-97% 2-aminomethyl-3-chloro-5-trifluoromethylpyridine hydrochloride.

RX(1) OF 1 A ===> B



A

B

● HCl

YIELD 97%

RX(1) RCT A 80194-70-3
RGT C 1333-74-0 H2, D 7647-01-0 HCl

Updated Search

10535723

PRO B 326476-49-7
CAT 7440-05-3 Pd
SOL 67-56-1 MeOH

Updated Search